(12)

EUROPEAN PATENT APPLICATION

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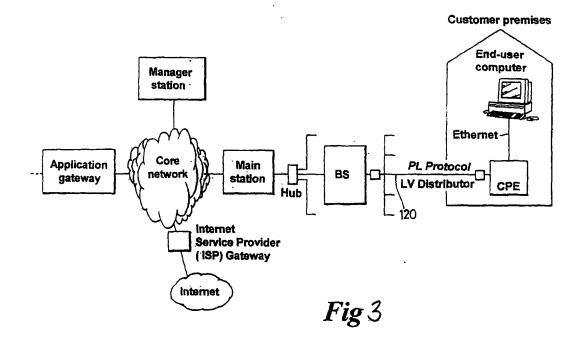
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- (30) Priority: 22.12.1998 GB 9828373
- (71) Applicant: Nortel Networks Limited Montreal, Quebec H2Y 3Y4 (CA)

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- (54) Multicarrier transmission on power lines
- (57) An Orthogonal Frequency Division Multiplexed (OFDM) communications system comprising a communication station. The communications station includes a an OFDM transmitter comprising an encoder for encod-

ing digital information, a transmission means for transmitting said information and a sub-band allocation means arranged to allocate sub-bands by selecting from a set of pre-determined parameters.



EP 1 014 640 A3



EUROPEAN SEARCH REPORT

Application Number EP 99 30 7793

	DOCUMENTS CONSID	ERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
X	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02, 29 February 1996 (1996-02-29) & JP 07 273741 A (TOSHIBA), 20 October 1995 (1995-10-20) * abstract *		1-7, 10-12	H04L27/26 H04B3/54 H04H1/04	
x	EP 0 762 701 A (AD) TELEVISION BROADCAS 12 March 1997 (1997 * figure 8 *	SING LABORATORY)	1-7, 10-12		
	subcarrier recovery multi-carrier code system" EUROPEAN TRANSACTIO TELECOMMUNICATIONS.	division multiplexing NS ON y 1999 (1999-07), pages	10-12	TECHNICAL FIELDS SEARCHED (INLCL.7) H94L H94B	
	EP 0 939 527 A (SON 1 September 1999 (1 * abstract; figure	999-09-01)	1-7, 10-12	110415	
<u>-</u> -	The present search report has b	cen drawn up for all eleims			
	Place of search	Date of completion of the search		Examiner	
•	THE HAGUE	19 February 2002	SCRI	VEN P.	
X : partice Y : partice docum A : techno O : non-w	TEGORY OF CITED DOCUMENTS ularly relevant if taken alone ularly relevant if combined with anoth ent of the same category plogical background ritten disclosure ediate document	T : theory or principle E : earlier patent docu- after the filling date er D : document cited in L : document cited for	ment, but publish the application other reasons	ed on, or	

EPO FORM 1503 03.82 (P04C01)



Application Number

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CLAIMS INCURRING FEES	_
The present European patent application comprised at the time of filing more than ten claims.	_
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):	
No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.	;
LACK OF UNITY OF INVENTION	_
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:	
see sheet B	
All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.	3
As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.	
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:	
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims: 1-7,10-12	



LACK OF UNITY OF INVENTION SHEET B

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-7, 10-12

Inclusion of symbols with larger than normal guard intervals

2. Claims: 8, 9, 13-16

Sub-band allocation by choosing between predetermined sets of parameters

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 30 7793

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

19-02-2002

4-09-199 9-05-199 2-03-199 5-10-199
9-05-199 2-03-199
1-09-199